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EDUCATION:

- 2000 Ph.D. University of California at Santa Cruz, Santa Cruz, CA
Earth Sciences Department, Concentrations: Coastal Geology and Oceanography
- 1996 B.Sc. University of Delaware, Newark, DE
Geology Department, Concentrations: Geomorphology and Sedimentology

RESEARCH EXPERIENCE:

- 2002-present Research Geological Oceanographer
Coastal and Marine Geology Program, US Geological Survey
- 2002-present Research Associate
Institute for Marine Sciences, University of California at Santa Cruz
- 2002-2004 Research Fellow
Partnership for Interdisciplinary Studies of Coastal Oceans Consortium
- 2000-2002 Post-doctoral Researcher
Institute for Marine Sciences, University of California at Santa Cruz
- 1996-2000 Graduate Student Researcher
Earth Sciences Department, University of California at Santa Cruz

RESEARCH INTERESTS:

- Coral reef and rocky shoreface morphology, hydrodynamics, sediment distribution and the resulting modes of sediment transport
- The influence of coastal hydrodynamics on nearshore rock and reef biologic communities
- The interplay between geologic structure, climatic fluctuations and coastal processes
- The influence of extreme storm events on the geomorphic evolution of coastlines
- High-resolution oceanographic instrumentation and coastal mapping techniques

PUBLICATIONS:

Figurski, J.D., Freiwald, J., Lonhart, S.I., and Storlazzi, C.D., in review. "Community-level effects of burial and exhumation on temperate rocky reef benthos" *Landscape Ecology*

Jokiel, P.L., Rodgers, K.S., Storlazzi, C.D., Field, M.E., Lager, C.V., and Lager, D., in review. "Response of reef corals on a fringing reef flat to elevated suspended-sediment concentrations: Moloka'i, Hawai'i" *PeerJ*

Oberle, F.K.J., Storlazzi, C.D., and Hanebuth, T.J.J., accepted. "Wave-driven sediment mobilization on a storm-controlled continental shelf (Northwest Iberia)" *Journal of Marine Systems*

Hubbard, D., Gischler, E., Davies, P., Montaggioni, L., Camoin, G., Dullo, W.-C., Storlazzi, C., Field, M., Fletcher, C., Grossman, E., Sheppard, C., Lescinsky, H., Fenner, D., McManus, J., Scheffers, S., 2014. "Island outlook: Warm and swampy" *Science*, v. 345(6203), p. 1461

Buscombe, D., Rubin, D.M., Lacy, J.R., Sherwood, C.R., Storlazzi, C.D., Hatcher, G., Chezar, H., and Wyland, R., 2014. "Autonomous bed-sediment imaging-systems for revealing temporal variability of grain size" *Limnology and Oceanography – Methods*, v. 12, p. 390-406.

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Ferrario, F., Beck, M.W., Storlazzi, C.D., Micheli, F., Shepard, C.C., and Airoidi, L., 2014. "The effectiveness of coral reefs for coastal hazard risk reduction and adaptation." *Nature Communications*, 5:3794, DOI: 10.1038/ncomms4794.

Cheriton, O.M., McPhee-Shaw, E.E., Shaw, W.J., Stanton, T.P., Bellingham, J.G., Storlazzi, C.D., 2014. Suspended particulate layers and internal waves over the southern Monterey Bay continental shelf: An important control on shelf mud belts? *Journal of Geophysical Research–Oceans*, v. 119, p. 1-17, DOI: 10.1002/2013JC009360

Davis, A., Muller, C., Kvitek, R., Storlazzi, C.D., and Phillips, E., 2013. "Distribution and abundance of rippled scour depressions along the California coast" *Continental Shelf Research*, v. 69, p. 88-100.

Robertson, B., Hall, K., Nistor, I., Zytner, R., and Storlazzi, C., 2013. "Remote sensing of irregular breaking wave parameters in field conditions" *Journal of Coastal Research*, DOI: 10.2112/JCOASTRES-D-13-00006.1

Storlazzi, C.D., Field, M.E., Cheriton, O.M., Presto, M.K., and Logan, J.B., 2013. "Rapid fluctuations in flow and water-column properties in Asan Bay, Guam: Implications for selective resilience of coral reefs in warming seas" *Coral Reefs*, v. 32, p. 949-961.

Conaway, C.H., Storlazzi, C.D., Draut, A.E., and Swarzenski, P.W., 2013. "Short-term variability of ⁷Be atmospheric deposition and watershed response in a Pacific coastal stream, Monterey Bay, California, USA" *Journal of Environmental Radioactivity*, v. 120, p. 94-103.

DeMartini, E., Jokiel, P., Beets, J., Stender, Y., Storlazzi, C., Minton, D., and Conklin, E., 2013. "Terrigenous sediment impact on coral recruitment and growth affects the use of coral habitat by recruit parrotfishes (F. Scaridae)" *Journal of Coastal Conservation*, v. 17, p. 417-429.

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Hoeke, R.K., Storlazzi, C.D., and Ridd, P.V., 2013. "Drivers of circulation in a fringing coral reef embayment: A wave-flow coupled numerical modeling study of Hanalei Bay, Hawaii." *Continental Shelf Research*, v. 58, p. 79-95.

Prouty, N.G., Goodkin, N.F., Jones, R., Lamborg, C.H., Storlazzi, C.D., and Huguen, K.A., 2013. "Environmental assessment of metal exposure to corals living in Castle Harbour, Bermuda" *Marine Chemistry*, v. 154, p. 55-66.

Rogers, J.S., Monismith, S.G., Feddersen, F., and Storlazzi, C.D., 2013. "Hydrodynamics of spur and groove formations on a fringing coral reef" *Journal of Geophysical Research–Oceans*, v. 118, p. 1-15, DOI: 10.1002/jgrc.20225

Storlazzi, C.D., Fregoso, T.A., Figurski, J.D., Freiwald, J., Lonhart, S.I., and Finlayson, D.P., 2013. "Burial and exhumation of temperate bedrock reefs as elucidated by repetitive high-resolution seabed sonar surveys: Biological ramifications and guidance for future studies" *Continental Shelf Research*, v. 55, p. 40-51

Conaway, C.H., Draut, A.E., Echols, K.R., Storlazzi, C.D., and Ritchie, A., 2012. "Episodic suspended-sediment transport and elevated polycyclic aromatic hydrocarbons in a small, mountainous river in coastal California" *River Research and Applications*, v. 29 p. 919-932

Field, M.E., Chezar, H., Storlazzi, C.D., 2012. "SedPods: A low-cost coral proxy for measuring net sedimentation" *Coral Reefs*, v. 32, p. 155-159

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Erikson, L.H., Storlazzi, C.D., and Jensen, R.E., 2011. "Wave climate and trends along the eastern Chukchi Arctic Alaska coast." *Solutions to Coastal Disasters 2011*, p. 273-285. DOI: 10.1061/41185(417)25.

Field, M.E., Ogston, A.S., and Storlazzi, C.D., 2011. "Rising sea level may cause decline of fringing coral reefs." *EOS*, Transactions of the American Geophysical Union, v. 92(33), p. 273-274.

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Storlazzi, C.D., Fregoso, T.A., Golden, N.E., and Finlayson, D.P., 2011. "Sediment dynamics and the burial and exhumation of bedrock reefs along an emergent coastline as elucidated by repetitive sonar surveys: Northern Monterey Bay, CA." *Marine Geology*, v. 289, p. 46-59.

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Peery, M.Z., Newman, S.H., Storlazzi, C.D., and Beissinger, S.R., 2009. "Meeting reproductive demands in a dynamic upwelling system: foraging strategies of a pursuit-diving seabird, the Marbled Murrelet." *The Condor*, v. 111(1), p. 120-134.

Draut, A.E., Bothner, M.H., Reynolds, R.L., Field, M.E., Cochran, S.A., Logan, J.B., Storlazzi, C.D., and Berg, C.J., 2009. "Supply and dispersal of seasonal flood deposits in Hanalei Bay, Kaua'i, HI, USA: Implications for coral-reef ecosystems." *Geological Society of America Bulletin*, v. 121(3-4), p. 574-585.

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Piniak, G.A. and Storlazzi, C.D., 2008. "Diurnal variability in turbidity and coral fluorescence on a fringing reef flat: Southern Molokai, Hawaii" *Estuarine Coastal and Shelf Science*, v. 77(1), p. 56-64.

Wingfield, D.K. and Storlazzi, C.D., 2007. "Variability in oceanographic and meteorologic forcing along Central California and its implications on nearshore processes" *Journal of Marine Systems*, v. 68, p. 457-472.

Phillips, E.L., Storlazzi, C.D., Dartnell, P. and Edwards, B.D., 2007. "Exploring rippled scour depressions offshore Huntington Beach, CA" *Coastal Sediments 2007*, v. 3, p. 1851-1864.

Vitousek, S., Fletcher, C.H., Merrifield, M.A., Pawlak, G., Storlazzi, C.D., 2007. "Model scenarios of shoreline change at Kaanapali Beach, Maui, Hawaii: Seasonal and extreme events" *Coastal Sediments 2007*, v. 2, p. 1227-1240.

Storlazzi, C.D., McManus, M.A., Logan, J.B., and McLaughlin, B.E., 2006. "Cross-shore velocity shear, eddies, and heterogeneity in water column properties over fringing coral reefs: West Maui, Hawaii" *Continental Shelf Research*, v. 26, p. 401-421.

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Engels, M.S., Fletcher, C.H., Field, M.E., Storlazzi, C.D., Grossman, E.E., Rooney, J.B., Conger, C.L., and Glenn, C., 2004. "Holocene reef accretion: southwest Molokai, Hawaii" *Journal of Sedimentary Research*, v. 74(2), p. 255-269.

Storlazzi, C.D., Logan, J.B., and Field, M.E., 2003. "Quantitative morphology of a fringing reef tract from high-resolution laser bathymetry: Southern Molokai, Hawaii" *Geological Society of America Bulletin*, v. 115, no. 11, p. 1344-1355.

Storlazzi, C.D., McManus, M.A., and Figurski, J.D., 2003. "Long-term high-frequency ADCP and temperature measurements along central California: Insights into upwelling and internal waves on the inner shelf" *Continental Shelf Research*, v. 23, p. 901-918.

Storlazzi, C.D., Field, M.E., Dykes, J.D., Jokiel, P.L., and Brown, E., 2002. "Wave Control on Reef Morphology and Coral Distribution: Molokai, Hawaii" *WAVES 2001 Conference Proceedings*, American Society of Civil Engineers, San Francisco, California, v. 1, p. 784-793.

Storlazzi, C.D., and Jaffe, B.E., 2002. "Flow and sediment suspension events on the inner shelf of central California" *Marine Geology*, v. 181, p. 195-213.

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Storlazzi, C.D., Willis, C.M., and Griggs, G.B., 2000. "Comparative impacts of the 1982-83 and 1997-98 El Niño winters on the central California coast" *Journal of Coastal Research*, v. 17, no. 4, p. 1022-1036.

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Field, M.E., Storlazzi, C.D., Calhoun, R.S., and Cochran, S.A., 2000. "Sedimentation patterns on the fringing reef off southern Moloka'i, Hawai'i" *Proceedings of the National Beach Preservation Conference 2000*, American Shore and Beach Preservation Association, August 2000, Kaanapali, Maui, Hawai'i, p. 67-69.

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Storlazzi, C.D., Golden, N.E., and Finlayson, D.P., 2008. "Views of the Seafloor in Northern Monterey Bay, California" *USGS Scientific Investigations Map 3007*, 1 p. <http://pubs.usgs.gov/sim/3007/>

Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., 2008, "The Coral Reef of South Moloka'i, Hawai'i—Portrait of a Sediment-Threatened Fringing Reef" *USGS Scientific Investigation Report 2007-5101*, 180 p. <http://pubs.usgs.gov/sir/2007/5101/>

Storlazzi, C.D., Reid, J.A., and Golden, N.E., 2007. "Wave-Driven Spatial and Temporal Variability in Seafloor Sediment Mobility in the Monterey Bay, Cordell Bank, and Gulf of the Farallones National Marine Sanctuaries" *USGS Scientific Investigations Report 2007-5233*, 84 p. <http://pubs.usgs.gov/sir/2007/5233/>

Presto, M.K., Storlazzi, C.D., Logan, J.B. and Grossman, E.E., 2007. "Submarine ground water discharge and fate along the coast of Kaloko-Honokohau National Historical Park, Hawaii. Part I: Time-series measurements of currents, waves and water properties: November, 2005 – July, 2006" *USGS Open-File Report 2007-1310*, 47 p. <http://pubs.usgs.gov/of/2007/1310/>

Storlazzi, C.D., Barnard, P.L., Collins, B.D., Finlayson, D.P., Golden, N.E., Hatcher, G.A., Kayen, R.E., and Ruggiero, P., 2007. "High-Resolution Topographic, Bathymetric and Oceanographic Data for the Pleasure Point Area, Santa Cruz County, California: 2005-2007" *U.S. Geological Survey Open-File Report 2007-1270*, 23 p. <http://pubs.usgs.gov/of/2007/1270/>

Draut, A.E., Field, M.E., Bothner, M.H., Logan, J.B., Casso, M.A., Baldwin, S.M., and Storlazzi, C.D., 2006. "Coastal Circulation and Sediment Dynamics in Hanalei Bay, Kauai. PART II: Tracking recent fluvial sedimentation using isotope stratigraphy obtained in summer 2005." *USGS Open-File Report 2006-1125*, 52 p. <http://pubs.usgs.gov/of/2006/1125/>

Storlazzi, C.D., Presto, M.K., Logan, J.B. and Field, M.E., 2006. "Coastal Circulation and Sediment Dynamics in Hanalei Bay, Kauai. PART I: Measurements of waves, currents, temperature, salinity and turbidity: June – August, 2005." *USGS Open-File Report 2006-1085*, 35 p. <http://pubs.usgs.gov/of/2006/1085/>

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Storlazzi, C.D., Russell, M.A., Presto, M.K. and Burbank, J.E., 2005. "Flow Patterns and Current Structure at the *USS Arizona* Memorial: April, 2005" *USGS Open-File Report 2005-1334*, 24 p. <http://pubs.usgs.gov/of/2005/1334/>

Storlazzi, C.D. and Presto, M.K., 2005. "Coastal Circulation and Water Column Properties along Kaloko-Honokohau National Historical Park, Hawaii. PART I: Measurements of waves, currents, temperature, salinity and turbidity: April-October 2004" *USGS Open-File Report 2005-1161*, 30 p. <http://pubs.usgs.gov/of/2005/1161/>

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Storlazzi, C.D., Field, M.E., Ogston, A.S., Logan, J.B., Presto, M.K. and Gonzales, D.G., 2004. "Coastal Circulation and Sediment Dynamics along West Maui, Hawaii, PART III: Flow and

particulate dynamics during the 2003 summer coral spawning season” *USGS Open-File Report 2004-1287*, 36 p. <http://pubs.usgs.gov/of/2004/1287/>

Storlazzi, C.D., Russell, M.A., Owens, M.D., Field, M.E. and Murphy, L.E., 2004. “Dynamics of the Physical Environment at the USS *Arizona* Memorial: 2002-2004” *USGS Open-File Report 2004-1353*, 28 p. <http://pubs.usgs.gov/of/2004/1353/>

Hatcher, G.A., Reiss, T.E. and Storlazzi, C.D., 2004. “Application of GPS drifters to track Hawaiian coral spawning” *USGS Open-File Report 2004-1309*, 14 p. <http://pubs.usgs.gov/of/2004/1309/>

Storlazzi, C.D., Logan, J.B., McManus, M.A., and McLaughlin, B.E., 2003. “Coastal Circulation and Sediment Dynamics along West Maui, Hawaii, PART II: Hydrographic Survey Cruises A-3-03-HW and A-4-03-HW Report on the spatial structure of currents, temperature, salinity and turbidity along Western Maui” *USGS Open-File Report 03-430*, 50 p. <http://pubs.usgs.gov/of/2003/of03-430/>

Storlazzi, C.D. and Jaffe, B.E., 2003. “Coastal Circulation and Sediment Dynamics along West Maui, Hawaii, PART I: Long-term measurements of currents, temperature, salinity and turbidity off Kahana, West Maui: 2001-2003” *USGS Open-File Report 03-482*, 28 p. <http://pubs.usgs.gov/of/2003/of03-482/>

INVITED LECTURES/BRIEFINGS:

Briefed US Department of Insular Affairs’ Assistant Secretary in Maui, HI, on USGS research on climate-change and sea-level rise impacts to Pacific coral reefs and atolls, 09/2014

“The Impact of Circulation and Sediment Dynamics on West Maui’s Fringing Reefs.” Natural Science Program, University of Hawaii, 09/2014.

“Numerical Modeling of Coral Connectivity in the Maui Nui Complex of Hawaii.” Maui Nui Marine Resource Council, 09/2014.

“Watershed Influences to Hawaiian High-Island Fringing Reefs.” US Coral Reef Task Force, Honolulu, Hawaii, 07/2013.

Briefed US Embassy and Ambassador Armbruster in Majuro, RMI, on USGS research on climate-change and sea-level rise impacts to Pacific atolls, 05/2014

Briefed Republic of the Marshall Islands (RMI) government in Majuro, RMI, on USGS research on climate-change and sea-level rise impacts to Pacific atolls, 05/2014

Briefed US Department of Defense on USGS research on climate-change and sea-level rise impacts to Pacific atolls, 04/2014

“US Geological Survey’s Coastal and Marine Geology Program (USGS-CMGP) Activities in Support of the US Coral Reef Task Force Priority Study Area off West Maui, Hawaii, USA” National Fish and Wildlife Foundation, Honolulu, 03/2014

“El Niño-Southern Oscillation (ENSO) Events and Coastal Erosion Processes Along Central California.” Lewis and Clark College, Environmental Studies Program, 03/2014

“US Geological Survey’s Coastal and Marine Geology Program (USGS-CMGP) Approach and Products related to Extreme Water Levels” US Army Corps of Engineers, Engineering Technical Letter – Team Meeting, New York, 02/2014

“Coastal Circulation and Water-column Properties in War in the Pacific National Historical Park, Guam” National Park Service, Pacific Islands Network, 01/2014

“Watershed and Climate Change Impacts to High Island Fringing Reefs.” Coral Reef Alliance, 09/2013.

“Watershed Influences to Hawaiian High-Island Fringing Reefs.” US Coral Reef Task Force, Honolulu, Hawaii, 07/2013.

“Land Use and Climate Change Impacts to Hawaiian Fringing Reefs.” Natural Science Program, University of Hawaii, 07/2013.

“Circulation and Sediment Dynamics on West Maui’s Fringing Reefs.” Maui Nui Marine Resource Council, 07/2013.

“Circulation and Sediment Dynamics on West Maui’s Fringing Reefs.” Hawaiian Department of Aquatic Resources, 07/2013.

“Watershed and Climate Change Impacts to High Island Fringing Reefs.” NOAA Coral Reef Conservation Program, 06/2013.

“The Impact of Sea-Level Rise and Climate Change on Department of Defense Installations on Atolls in the Pacific Ocean” Strategic Environmental Research and Development Program, US Department of Defense, 06/2013

“Waves in the Monterey Bay National Marine Sanctuary: Influences from Top-down to Bottom-up.” Monterey Bay National Marine Sanctuary, 04/2013

“Watershed and Climate Change Impacts to High Island Fringing Reefs.” Marine Laboratory, University of Guam, 08/2012.

“Watershed Influences and Potential Climate Change Impacts to US Fringing Coral Reefs.” School of Earth and Environment, University of Western Australia, 07/2012.

“Nearshore Morphology, Benthic Habitats, Hydrodynamics, and Coastal Groundwater Discharge Near Kahekili Beach Park, Maui, Hawaii.” Environmental Protection Agency, 03/2012.

“Understanding the Residence Time and Advection of Fluvial Sediment out of a Coral Reef-lined Embayment.” Environmental Fluid Mechanics Laboratory, Stanford University, 11/2011.

“Observations and Modeling of Habitat Stability on the California Continental Shelf and Its Implications on Benthic Ecosystems.” Bodega Marine Laboratory, University of California at Davis, 10/2011.

“Predicting the Impact of Storm Waves and Sea-level Rise Within the Papahānaumokuākea

Marine National Monument.” USGS Pacific Islands Ecosystems Research Center, 09/2011.

"The Dynamics of Fine-Grained Sediment Dredged from Santa Cruz Harbor." Environmental Protection Agency, 06/2011.

"The Dynamics of Fine-Grained Sediment Dredged from Santa Cruz Harbor." US Army Corps of Engineers, 06/2011.

“Nearshore disposal of fine-grained sediment in a high-energy environment” California and the World’s Ocean 2010 Conference, 09/2010

“Climate change impacts to US coral reefs.” US Army Corps of Engineers and NOAA-Pacific Climate Information System Programs, 07/2010

“Circulation and sediment dynamics in Maunalua Bay, Oahu.” The Nature Conservancy, Hawaii Marine Program, 06/2010

"USGS's investigations of terrestrial impacts to and marine processes in northern Monterey Bay." Monterey Bay National Marine Sanctuary’s Research Activities Panel Meeting, 03/2010

“Development of and Land-Based Threats to Coral Reefs" University of California at Santa Cruz, Biology Department, 02/2010

“Observations and Modeling of Habitat Stability on the Central California Continental Shelf.” California State University, Moss Landing Marine Laboratory, 02/2010

“Seabed Instability.” University of California at Santa Cruz, Earth Sciences Department, 10/2009

“Observations and Modeling of the Spatial and Temporal Scales of Sediment Mobility on the Continental Shelf.” NOAA Southwest Fisheries Science Center, 06/2009

“Land-based Threats to Coral Reefs.” Cabrillo College, Natural and Applied Science Division, 05/2009

“Observations and Modeling of the Spatial and Temporal Scales of Sediment Mobility on the Continental Shelf.” NOAA Center for Coastal Fisheries and Habitat Research, 04/2009

“Geologic and Oceanographic Processes that Control the Formation of Bar-built Estuaries.” California Regional Water Quality Control Board science staff, 04/2009

“USGS efforts to understand circulation and sediment dynamics in Maunalua Bay, Oahu” US Coral Reef Task Force, Hawaiian Local Action Strategy, 03/2009

“An Overview of the Coastal and Marine Geology Program’s Coral Reef Project and Its Current Research in Maunalua Bay, Oahu.” USGS Pacific Islands Water Science Center, 02/2009

“The Influence of Climate Change on Coastal Processes and Benthic Habitats: Past Observations, Present Modeling, and Future Projections.” US Fish and Wildlife Service and US Geological Survey’s “Climate Change, Natural Resources, and Coastal Management Workshop”, 01/2009

“Geologic and Oceanographic Processes that Control the Formation of Bar-built Estuaries.”

Pescadero Marsh Restoration Forum, 12/2008

"USGS's Brown-2-Blue studies: Investigating terrestrial impacts on northern Monterey Bay's coastal waters." Monterey Bay National Marine Sanctuary's Research Activities Panel Meeting, 11/2008

Presented USGS Coral Reef Project results to USGS Associate Director Suzette Kimball, 07/2008

"Possible Issues with Mining Sediment from Submarine Canyons for Beach Restoration", Monterey Bay National Marine Sanctuary's Research Activities Panel Meeting, 05/2008

"Geologic and Oceanographic Processes at Pleasure Point, California." California Coastal Commission, 06/2007

"Coastal Erosion Processes Along Central California." Davenport Geological Society, 06/2007

"El Niño-Southern Oscillation (ENSO) Events and Coastal Erosion Processes Along Central California." California State University, Moss Landing Marine Laboratory, 02/2006

"The Role of Active Processes in Habitat Studies." National Marine Fisheries Service-University of California at Santa Cruz-US Geological Survey's "Fisheries Science Coordination Meeting", 07/2005

"Variability in Oceanographic and Meteorologic Forcing along Central California and its Implications on Nearshore Processes." University of California at Santa Cruz, Institute of Marine Sciences, 11/2004

"Variability in Oceanographic and Meteorologic Forcing along Central California and its Implications on Nearshore Physical and Biologic Processes." National Marine Fisheries Service, Pacific Fisheries Environmental Laboratory, 05/2004

"Life and Death of Hawaiian Coral Reefs." U.S. Geological Survey's Western Region Public Lecture Series, 02/2004

"The Influence of Physical Processes on Coral Reefs: Insights from West Maui, Hawaii." University of California at Santa Cruz, Earth Sciences Department, 11/2003

Presented USGS Coral Reef Project results to USGS Director Charles Groat, 10/2003

"Sediment Dynamics on Hawaiian Reefs: Insights from Southern Molokai, Hawaii." Stanford University, Department of Geological and Environmental Sciences, 03/2003

"Application of Mapping to Sediment Dynamics Studies and Habitat Analysis on Rocky Inner Shelves." U.S. Geological Survey, Western Region Coastal and Marine Geology Team, 07/2002

"Sediment Dynamics on Hawaiian Reefs: Insights from Southern Molokai, Hawaii." U.S. Geological Survey, Western Region Coastal and Marine Geology Team, 06/2002

"Wave Control on Coral Distribution and Fringing Reef Morphology: Southern Molokai, Hawaii." University of Delaware, Institute of Marine Sciences and Department of Geology, 05/2002

“Wave Control on Coral Distribution and Fringing Reef Morphology: Southern Molokai, Hawaii.” University of California at Santa Cruz, Institute of Marine Sciences, 05/2002

“Cool Tools in Physical Oceanography” University of California’s Seymour Marine Discovery Center, 04/2002

“Long-term High-frequency ADCP and Temperature Measurements Along Central California: Insights into Upwelling and Internal Waves on the Inner Shelf.” University of California at Santa Cruz, Institute of Marine Sciences, 11/2001

“Coastal Hazards and Processes along the Monterey Peninsula and Carmel Bay, CA” Carmel, CA, city council and land use planners, 04/2001

"El Niño-Southern Oscillation (ENSO) Events and Coastal Erosion Processes along Central California." American Geophysical Union 2000 Fall Meeting, Ocean Sciences Section, Special Session OS-22: Linking Climate Variability and Coastal Processes, 12/2000

MEETINGS OR WORKSHOPS CHAIRED:

- 47th American Geophysical Union Meeting, From Ridge-to-Reef: Terrestrial sediment impacts to coral reef ecosystems, 2014 (co-chair)
- Sea-Level Rise and Climate-Change Impacts to US Department of Defense Facilities on Pacific Atolls, 02/2014 (chair)
- 17th International Ocean Sciences Meeting, Physical Processes along Reef-protected Coastlines: Current Observations and Future Predictions, 2014 (co-chair)
- Hawaiian Conservation Conference, Coral Reefs of Maui Nui: 21st Century Threats and Potential Resilience, 2014 (co-chair)
- Vulnerability of Coral Reef Protected Coastlines in a Changing Environment, Sediment Dynamics Session, 2013 (chair)
- 12th International Coral Reef Symposium, Watershed Management and Reef Pollution Session, 2012 (co-chair)
- Impacts of Climate Change to the Central California Coast: Expert meeting on sea-level rise and storms, 2012 (chair)
- 15th International Ocean Sciences Meeting, Synergistic Interactions Between Stressors to Coral Reefs Session, 2010 (chair)
- 15th International Ocean Sciences Meeting, Physical Processes on Coral Reefs and Their Role in Reef Dynamics Session, 2010 (co-chair)
- 15th International Ocean Sciences Meeting, Geomorphic Process and Modeling of Rocky and Bluffed Coasts Session, 2010 (co-chair)
- Monterey Bay National Marine Sanctuary’s Research Activities Panel Spring Meeting, 2010 (chair)
- 11th International Coral Reef Symposium, Hydrodynamics of Coral-Reef Systems Session, 2008 (co-chair)
- Monterey Bay National Marine Sanctuary’s Research Activities Panel Fall Meeting, 2008 (chair)
- 1st Monterey Bay Research Consortium’s Central California Environmental Modeling Workshop, 2007 (co-chair)
- 6th International Symposium on Coastal Sediments, Seafloor Mapping Session, 2007 (co-chair)
- 13th International Ocean Sciences Meeting, Environmental Change and Its Impact on Coral Reefs Session, 2006 (chair)
- Monterey Bay National Marine Sanctuary’s Research Activities Panel Fall Meeting, 2006

(chair)

- 10th International Coral Reef Symposium, The Influence of Storms and Floods on Coral Reef Development Session, 2004 (co-chair)
- 11th Pacific Congress on Marine Science and Technology, Hydrodynamics of Coastal Waters Session, 2001 (co-chair)

JOURNAL AND REPORT REVIEW:

- *Nature Geoscience, Journal of Geophysical Research-Oceans, Continental Shelf Research, Coral Reefs, Marine Geology, Sedimentary Geology, Journal of Sedimentary Research, Coastal Estuarine and Shelf Science, Journal of Coastal Research, Marine Ecology Progress Series, Earth Science and Planetary Letters, Climate Research* journals (4-6 per year)
- “The Natural Resources of Monterey Bay National Marine Sanctuary: A Focus on Federal Waters.” NOAA Office of National Marine Sanctuaries (ONMS), 2012.
- “Third Intergovernmental Review of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities (GPA)” U.S. Department of State, Bureau of Oceans and International Environmental and Scientific Affairs, 2011
- “National Fish, Wildlife, and Plants Climate Adaptation Strategy” USFWS, NOAA, and State Divisions of Fish, Wildlife, and Marine Resources, 2011
- “Coastal Flooding-Potential Projections: 2000-2100” State of California, Public Interest Energy Research Program, California Energy Commission, 2011
- “Ocean Current Study Ocean Dredged Material Disposal Site: Apra Harbor, Guam” NPS Inventory and Monitoring Program, 2011
- “Gulf of the Farallones and Cordell Bank National Marine Sanctuaries Climate Change Site Scenario” NOAA National Marine Sanctuary Program, 2010
- National Science Foundation, Biological Oceanography Program, 2010
- “Kalaupapa National Historical Park Geologic Resources Inventory Report” NPS Geologic Resources Division, 2010
- “Offshore Geophysical Survey Report Supporting the scwd2 Seawater Desalination Facility”, City of Santa Cruz, 2010
- “Environmental Fluid Dynamics Codes (EFDC) Model Development and Application for Hanalei Bay, Hawaii”, US Environmental Protection Agency (EPA) and State of Hawaii Department of Health, 2010
- National Science Foundation, Biological Oceanography Program, 2009
- “Secretary's 2009 Report on a Comprehensive Offshore Energy Program”, US Department of the Interior, 2009
- National Science Foundation, Geomorphology and Land Use Dynamics Program, 2009
- “Coastal Hazard Analysis for Pu’ukohola Heiau National Historic Site and Koloko-Honokohau Historical Park, Big Island, Hawai’i”, National Park Service, 2008
- “Environmental Assessment of the Highway 1 Slide Area at Pitkins Curve, Monterey County”, California Department of Transportation and the Monterey Bay National Marine Sanctuary (MBNMS), 2008
- “US Army Corps of Engineers’ Design for Enhancement of Wave-Induced Circulation at Kaunakakai Harbor, Molokai, Hawaii”, State of Hawaii Office of Planning, 2008
- “Final Environmental Impact Statement for the Monterey Bay National Marine Sanctuary’s Joint Management Plan”, MBNMS, 2008
- National Science Foundation, Geomorphology and Land Use Dynamics Program, 2008
- “US Army Corps of Engineers Regional Sediment Management Offshore Canyon Capture”, MBNMS, 2008
- National Science Foundation, Physical Oceanography Program, 2007
- “Kona Kai Ola Project Draft Environmental Impact Statement”, Kaloko-Honokohau National Historical Park, US National Park Service, 2007.
- “Fall 2005 Inner Santa Cruz Harbor Dredge Disposal Monitoring Program”, MBNMS, 2006

- “Hydrodynamics and Sediment Dynamics in Elkhorn Slough”, MBNMS, 2005
- “Hawaii’s Local Action Strategy to Address Land-based Pollution Threats to Coral Reefs”, US Coral Reef Task Force, 2004
- Coastal Storms Initiative, Pacific Northwest Pilot Project’s “Oregon Coastal Inundation Tool” real-time storm and inundation model, NOAA’s Coastal Services Center, 2004
- “A Sediment Trend Analysis (STA) of Santa Cruz and its Vicinity: Implications to Dredge Disposal Operations”, MBNMS, 2000
- Seawall engineering proposal, City of Pacific Grove, CA, 2000

SCIENTIFIC REVIEW PANELS:

- US Coral Reef Task Force, Steering Committee, 2013-present
- US Coral Reef Task Force, Land-based Pollution Threats to Coral Reefs Committee, 2004-present
- NOAA, Monterey Bay National Marine Sanctuary, coastal geology representative (primary) to the Research Activities Panel, 2005-present
- USGS Pacific Islands Climate Science Center, Steering Committee, 2013-present
- USFWS Pacific Islands Climate Change Cooperative, Steering Committee, 2013-present
- US Army Corps of Engineers, Extreme Water Level Assessment Team, 2014
- University of California at San Diego, Scripps Institution of Oceanography, Coastal Geology Program Hiring Review Panel, 2014
- Netherlands Organization for Scientific Research, Council for Earth and Life Sciences, 2014
- US Global Change Research Program 2013 National Climate Assessment, Pacific Islands Regional Climate Assessment, Sea Level and Coastal Inundation on Pacific Islands, 2010-2013
- US Global Change Research Program 2013 National Climate Assessment, Pacific Islands Regional Climate Assessment, Impacts to Marine, Freshwater, and Terrestrial Ecosystems, 2012-2013
- Vulnerability of Coral Reef Protected Coastlines in a Changing Environment, Asian Development Bank, 2013
- Workshop on Observations of Sea-Level Rise and Storminess in California, National Research Council, National Academy of Science, 2013
- Coastal and Marine Geology Program Lidar Program Review Board, US Geological Survey, 2013
- NOAA, West Coast National Marine Sanctuary Program, Ecosystem-Based Management Working Group, 2010-2012
- US Army Corps of Engineers, Santa Cruz Harbor Dredge Disposal Working Group, 2008-2011
- NOAA, Coastal and Marine Ecological Classification Standards, Pacific/Arctic Working Group, 2011
- US Geological Survey Pacific Coastal and Marine Science Center 2011-2020 Science Planning Team, 2010-2011
- City of Santa Cruz, Seawater Desalination Plant Technical Working Group, 2009-2011
- State of California, Pescadero Lagoon Working Group, 2007–2010
- NOAA Marine Protected Area (MPA) and Integrated Ocean Observing System (IOOS) Task Team, 2010
- US Geological Survey Western Coastal and Marine Geology Team Habitats and Ecosystem Studies Assessment (chair), 2010
- State of California and Monterey Bay National Marine Sanctuary, Central California Halibut Trawl Fishery Working Group, 2010
- US Geological Survey, National Climate Change and Wildlife Science Center Proposals, 2010
- CenCOOS, Central California Ocean Observing System Program, 2005-2009
- NOAA, Monterey Bay National Marine Sanctuary 2009 Condition Report, 2009

- US Geological Survey, National Climate Change and Wildlife Science Center Proposals, 2009
- US Geological Survey, Eastern Region Coral Reef Science 5-year Project Review, 2009
- State of California Department of Transportation, Scott and Waddell Creek Bridge Replacement/Lagoon Restoration Working Group, 2007–2009
- US Geological Survey, Pacific Southwest Area Integrated Science Workshop on Climate Change, Coastal and Marine Geology Program representative, 2008
- California Department of Boating and Waterways and Santa Cruz County Redevelopment Agency, Pleasure Point Geologic and Oceanographic Processes Technical Working Group, 2005-2008
- US National Park Service and Commonwealth of the Northern Mariana Islands Coastal Resources Management Office, Coastal erosion at American Memorial Park, Saipan, CNMI, 2007
- NOAA, Joint Management Plan for the Cordell Bank, Gulf of the Farallones, and Monterey Bay National Marine Sanctuaries, 2006-2007
- NOAA, Undersea Research Program, Undersea Research on Tropical and Subtropical Marine Ecosystems, 2005
- NOAA, Monterey Bay National Marine Sanctuary, coastal geology representative (alternate) to the Research Activities Panel, 2004-2005
- Hawaiian Department of Natural Resources/Hawaiian Department of Aquatic Resources/University of Hawaii, Hawaii Coral Reef Initiative Research Program, 2004
- Natural Environment Research Council, Physical Oceanography Programme (U.K.), 2004
- National Parks Service, Pacific Islands Coral Reef Program, 2003
- US Geological Survey, Bureau-wide Coral Reef Science 10-year Planning Meeting, 2002
- NOAA, Monterey Bay National Marine Sanctuary 5-year Planning Committee, 2000

HONORS AND AWARDS:

- USGS Star Award, for outstanding performance of scientific duties, 2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by the United Nations Environment Programme (UNEP), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by The American Academy for the Advancement of Science (AAAS) (http://www.eurekalert.org/pub_releases/2014-05/usgs-cra051314.php), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by Science World Report (<http://www.scienceworldreport.com/articles/14681/20140513/coral-reefs-reduce-wave-impact-coastlines-97-percent.htm>), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by Nature World News (<http://www.natureworldnews.com/articles/7040/20140514/coral-reef-restoration-cheap-effective-way-saving-coastlines-researchers.htm>), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight in National Geographic's NewsWatch (<http://newswatch.nationalgeographic.com/2014/05/13/coral-reefs-the-seawall-that-nature-built/>), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight in Smithsonian.com (<http://www.smithsonianmag.com/smart-news/coral-reefs-absorb-almost-all-energy-crashing-waves-headed-toward-shore-180951462/?no-ist>), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by ClimateWire (<http://www.eenews.net/climatewire/2014/05/15/stories/1059999624>), 05/2014
- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by The Carbon Brief (<http://www.carbonbrief.org/blog/2014/05/coral-reefs-cheap-effective-coastal-defences/>), 05/2014

- Coral reefs effectiveness at reducing coastal hazards research noted as a research highlight by Science Codex (http://www.sciencecodex.com/coral_reefs_are_critical_for_risk_reduction_adaptation-133563), 05/2014
- USGS Star Award, for outstanding performance of scientific duties, 2013
- Wave and sea-level rise impacts to atolls research noted as a research highlight in Sea Technology (May 2013, p. 73), 05/2013
- Wave and sea-level rise impacts to atolls research noted as a research highlight in Natural History (April 2013, p. 8), 04/2013
- Wave and sea-level rise impacts to atolls research noted as a research highlight in Scientific American (<http://www.scientificamerican.com/article.cfm?id=storm-surges-rising-seas-could-doom-pacific-islands-this-century>), 04/2013
- Wave and sea-level rise impacts to atolls research noted as a research highlight on the Climate Wire website (<http://www.eenews.net/cw/>), 04/2013
- “New Sea-Level-Rise Modeling Forecasts Major Climate Impact to Low-Lying Pacific Islands” describing the release of USGS OFR 2013-1069 featured on the USGS Homepage (<http://www.usgs.gov/>), 04/2013
- USGS Star Award, for outstanding performance of scientific duties, 2012
- Wave and sea-level rise impacts to atolls research noted as a research highlight at the American Geophysical Union 2012 Fall meeting (<http://blogs.agu.org/geospace/2012/12/05/new-model-of-sea-level-rise-accounts-for-splash-in-the-bath/>), 2012
- Wave and sea-level rise impacts to atolls research noted as a research highlight on Storify (<http://storify.com/barbarawilcox/new-research-underscores-vulnerability-of-wildlife>), 2012
- USGS Coral Reef Project sediment dynamics research was highlighted in the 2011 book, *Encyclopedia of Modern Coral Reefs: Structure, Form, and Process* (David Hopely, ed.; DOI 10.1007/978-90-481-2639-2). The authors wrote, “Recent research...by the USGS has set the bar for sediment research in coral environments.”
- USGS Star Award, for outstanding performance of scientific duties, 2011
- Research on sea-level rise impacts to atolls noted as a research highlight by Environment Hawaii (vol. 22, no. 3, pg. 4), 2011
- USGS Star Award, for outstanding performance of scientific duties, 2010
- USGS SIM 3007 (“Views of the Seafloor in Northern Monterey Bay, California”) selected by the USGS to represent USGS science at the 2010 ESRI International User Conference, 07/2010
- USGS SIR 2007-5101 (“The Coral Reef of South Moloka’i, Hawai’i—Portrait of a Sediment Threatened Fringing Reef”) sent by the USGS Office of Communications and USGS Director Suzette Kimball to 33 State Senators and Representative that make up the Senate Committees on the (1) Energy and Environment, and (2) Water, Land, Agriculture, and Hawaiian Affairs, and the House Committees on (3) Energy and Environmental Protection, and (4) Water, Land, and Ocean Resources, 08/2009
- USGS SIR 2007-5101 (“The Coral Reef of South Moloka’i, Hawai’i—Portrait of a Sediment Threatened Fringing Reef”) selected as Association of Earth Science Editors’ Outstanding Publication of 2009 (print category), 07/2009
- USGS SIR 2007-5101 (“The Coral Reef of South Moloka’i, Hawai’i—Portrait of a Sediment Threatened Fringing Reef”) awarded the National Association of Government Communicator’s Blue Pencil Award of Excellence for 2009 (technical communication), 04/2009
- USGS SIM 3007 (“Views of the Seafloor in Northern Monterey Bay, California”) nominated for Shoemaker Communications Award, 04/2009

- USGS SIR 2007-5101 (“The Coral Reef of South Moloka’i, Hawai’i—Portrait of a Sediment Threatened Fringing Reef”) nominated for Shoemaker Communications Award, 04/2009
- USGS SIR 2007-5101 honored by Hawaii State Senate and House of Representatives as Concurrent Resolution #2009-0916 SCR SMA-1, 03/2009
- “Reversing Coral Reef Decline in Hawai’i -- A New Look at a Critical Problem” describing the release of USGS SIR 2007-5101 featured on the USGS Homepage (<http://www.usgs.gov/>), 11/2008
- USGS Star Award, for service, leadership, and team citizenship, 2008
- War-in-the-Pacific NHP joint USGS-NPS research program highlighted by USGS Director Myers in Sea Technology (January 2008 issue, pg. 31), 2008
- USGS Star Award, for service, leadership, and team citizenship, 2007
- USGS Star Award, for outstanding performance of scientific duties, 2006
- USGS Star Award, for service, leadership, and team citizenship, 2006
- “Coral Reefs and Sea-Level Rise Don’t Mix” presentation designated a USGS “Science Pick” of the month in March by the USGS National Center’s Communication Office, 2006
- Pleasure Point Project noted as a Ocean Research highlight by Sea Technology (September 2006 issue, pg. 61), 2006
- USGS Star Award, for service and leadership, 2005
- USGS Star Award, for service and team citizenship, 2004
- USGS Star Award, for RGE Panel service, 2004
- West Maui Coastal Circulation Experiment noted as a news highlight by the Marine Pollution Bulletin (vol. 46, pg. 931), 2003
- West Maui Coastal Circulation Experiment designated a USGS “Science Pick” of the month in July and August by the USGS National Center’s Communication Office, 2003
- “USGS Help Monitor the *USS Arizona* Memorial” highlighted in the April issue of *People, Land and Water*, the news magazine of the US Department of the Interior, 2003
- American Geological Institute’s “Highlight of the Year Issue” designation in Solid Earth (Geomorphology) Section for Storlazzi and Griggs (2000) *GSA Bulletin* paper, 2000
- David and Lucile Packard Foundation Postdoctoral Research Fellowship, 2000-2001
- Graduate Assistance in Areas of National Needs Fellowship, 1999
- Tuition Fellowship, University of California, Santa Cruz, 1996
- Regents’ Fellowship, University of California, Santa Cruz, 1996
- National Collegiate Natural Science Award, 1994, 1995

EXTERNAL FUNDING:

- 2014-2017: Department of Defense, Strategic Environmental Research and Development Program (SERDP). “*The Impact of Sea-Level Rise and Climate Change on Department of Defense Installations on Atolls in the Pacific Ocean*” \$2,520,300 (Principal Investigator)
- 2014-2016: US National Park Service, Inventory & Monitoring (I&M) Program. “*Coastal circulation and water-column properties in the National Park of American Samoa*” \$139,900 (Principal Investigator)
- 2014-2016: National Oceanographic and Atmospheric Administration, Coral Reef Conservation Program (NOAA-CRCP). “*Determining the efficacy of watershed management activities in the Wahikuli and Honokowai watersheds, West Maui*” \$220,500 (Co-principal Investigator)
- 2014-2015: US Geological Survey, Pacific Islands Climate Science Center. “*Future Coral Reef Community Projections of DOI-Managed Coastal Assets in the Hawaiian Islands*” \$249,900 (Co-principal Investigator)

- 2013-2014: US Fish and Wildlife Service, Pacific Islands Climate Change Cooperative. “*Future Wind and Wave Projections for NPS- and USFWS-managed Islands in the Pacific Ocean*” \$75,500 (Principal Investigator)
- 2013-2015: State of Hawaii Department of Health “*Reducing Excessive Sedimentation in the Hakioawa Watershed of Kaho’olawe Island by Restoring Native Ecosystems*” \$204,200 (Co-principal Investigator)
- 2011-2013: US National Park Service, Inventory & Monitoring (I&M) Program. “*Coastal circulation and water-column properties at War-in-the-Pacific National Historical Park (WAPA)*” \$188,000 (Principal Investigator)
- 2011-2013: US Fish and Wildlife Service, Inventory & Monitoring (I&M) Program. “*Predicting the impact of storm waves and sea-level rise within the Papahānaumokuākea Marine National Monument (PMNM)*” \$89,500 (Principal Investigator)
- 2011-2013: US Fish and Wildlife Service, Arctic Landscape Conservation Cooperative. “*Modeling Arctic barrier island-lagoon system response to projected Arctic warming*” \$173,700 (Co-principal Investigator)
- 2010-2011: NOAA, Hawaiian Coral Reef Initiative Research Program. “*Impact of land-derived sediment on the coral reef ecosystem of Pelekeane Bay, Hawaii*” \$148,900 (Co-principal Investigator)
- 2010-2011: US National Park Service, Kalaupapa National Historical Park. “*Hydrography of Kalaupapa National Historical Park’s (KALA) coastal waters*” \$33,400 (Principal Investigator)
- 2009-2010: US Army Corps of Engineers’ Engineer Research and Development Center. “*Study of the fate of fine-grain sediment dredged from the Santa Cruz Harbor*” \$130,000 (Principal Investigator)
- 2008: David and Lucile Packard Science and Technology Endowment. “*Assessing the impacts of fire from watersheds to the nearshore ocean*” \$15,000 (Co-principal Investigator)
- 2007-2008: US National Park Service, War in the Pacific National Historical Park. “*Circulation and sediment dynamics in War in the Pacific National Historical Park’s (WAPA) coastal waters*” \$78,900 (Principal Investigator)
- 2005-2007: California Department of Boating and Waterways and Santa Cruz County Redevelopment Agency. “*Pleasure Point geologic and oceanographic processes study*” \$155,100 (Principal Investigator)
- 2005-2007: US National Park Service, Water Resources Division. “*Determining subterranean groundwater nutrient input to Kaloko-Honokohau National Historical Park’s (KAHO) coastal ocean ecosystem*” \$98,600 (Co-principal Investigator)
- 2004-2005: US National Park Service, Pacific Islands Coral Reef Program. “*Coastal circulation and water column properties at Kaloko-Honokohau National Historical Park (KAHO)*” \$98,700 (Co-principal Investigator)
- 2002-2005: US National Park Service, Submerged Cultural Resources Center. “*Dynamics of the physical environment at the USS Arizona Memorial (USAR)*” \$28,900 (Co-principal Investigator)

Investigator)

SPECIALTY COURSES:

- Advanced Wave Climate Analysis, IH Cantabria, 2013
- Coastal Sediment Transport Processes, American Society of Civil Engineers, 2011
- Storm Processes, American Society of Civil Engineers, 2007
- MORPH Sediment Transport Model Application short course, Delft Hydraulics, 2007
- FLOW Hydrodynamic Model Application short course, Delft Hydraulics, 2005
- Leadership Intensive Course, US Geological Survey, 2004
- Water Wave Modeling short course, American Society of Civil Engineers, 2001
- SWAN Wave Model Application short course, Delft Hydraulics, 2001

QUALIFICATIONS:

- Master Scuba Diver with Advanced Open-water and Nitrox Certifications (NAUI)
- Scientific/Research Scuba Diver (AAUS, US-DOI); >510 scientific dives
- Class-A and Class-1 Motorboat Operator Certifications (US-DOI)
- First Aid, CPR-Pro, AED and DAN Oxygen Administration Certifications
- Basic Helicopter/Airplane Safety Certification (US-DOI)

PROFESSIONAL AFFILIATIONS:

- American Geophysical Union (AGU), 1994-present
- American Academy of Underwater Sciences (AAUS), 2000-present
- International Society for Reef Studies (ISRS), 2003-present

TECHNICAL POSITIONS:

- Field [Scuba] Diving Safety Officer, US Geological Survey, Pacific Science Center, 2004-present
- Collateral Duty Safety Officer, US Geological Survey, Pacific Science Center, 2003-2009

FIELD EXPERIENCE:

http://walrus.wr.usgs.gov/infobank/programs/html/scientists2idshtml/s/curt_storlazzi_ids.html

OUTREACH:

- Led scientific field trip at the 2104 fall US Coral Reef Task Force Meeting in Kaanapali, Maui, HI, 2014
- Provided video interview on the influence of coral reefs for risk reduction and adaptation for USGS homepage, 2014
- Gave talk titled, “Geologic and Climatic Controls on Past, Present, and Future Waves Along Central California” to the World Surfing Reserves staff and Save the Waves Coalition, Santa Cruz, 2014
- Co-wrote DOI NewsWave Winter 2014 article, “Sea-Level Rise, Storms, and Tsunamis: Science to Support Threatened Pacific Island Communities”
<http://www.doi.gov/pmb/ocean/index.cfm>
- Wrote USGS SoundWaves September/October 2013 (No. 148) article, “USGS and Hawai‘i Researchers Collaborate to Better Understand Changing Coral Reef Ecosystems Along West Maui, Hawai‘i”
- Represented the USGS-PCMSC at Santa Cruz's First Friday Art Tour's Coastal Clean-up Day, 2013
- Research on wave and sea-level rise impacts to atolls research presented in an article, “Storm Surges, Rising Seas Could Doom Pacific Islands This Century” in Scientific American magazine (<http://www.scientificamerican.com/article.cfm?id=storm-surges-rising-seas-could-doom-pacific-islands-this-century>), 2013
- Research on wave and sea-level rise impacts to atolls research presented in an article, “New Analysis Sees Major Climate Impact on Low-Lying Islands” on Voice of America

(<http://www.voanews.com/content/new-analysis-major-climate-impact-on-lowlying-islands/1639676.html>), 2013

- Research on wave and sea-level rise impacts to atolls research presented in an article, “Warming will speed damage to low-lying Pacific isles, study finds” in the Honolulu Star-Advertiser newspaper (http://www.staradvertiser.com/news/hawaii/news/20130412_Warming_will_speed_damage_to_lowlying_Pacific_isles_study_finds.html?id=202657411), 2013
- Interviewed for Monterey County Herald Newspaper on impacts of coastal hazards of “sneaker” waves, 2013 http://www.montereyherald.com/ci_22394578/mavericks-surf-contest-prime-time-sneaker-waves?source=most_viewed
- Interviewed for ABC News on fossil whale backbone found in seacliffs at Pleasure Point, CA, 2012 <http://abcnews.go.com/blogs/headlines/2012/11/surfers-find-giant-fossilized-back-bones/>
- Interviewed for Pacific Standard Magazine on impacts of climate change on surfing (made top article in the “Environment” section), 2012
- Provided scientific information and data for the designation of the Santa Cruz World Surfing Reserve, 2012
- Represented the USGS-PCMSC at Santa Cruz's First Friday Art Tour's Coastal Clean-up Day, 2012
- Wrote USGS SoundWaves July 2012 (No. 141) article, “Meeting of Experts on Key Drivers of Central California Coastal Change and Inundation Due to Climate Change”
- Helped develop a 21 foot-long mural showing the morphology of the Monterey Bay National Marine Sanctuary (MBNMS) for the new Sanctuary Discovery Center in Santa Cruz, CA, 2012.
- Interviewed for a Japanese TV show titled "Kiseki no Chikyu Monogatari" ("Miracle Story of the Earth") about the geology of the Monterey Peninsula and Carmel Bay, California. The documentary series airs on Japan's TV Asahi on Sundays from 6:30 to 7:00 p.m., 2011
- Provided USGS scientific scuba diving information that was incorporated into the book, *Scientific Diving Techniques: A Practical Guide for the Research Diver* (2nd edition), 2011, by J.N. Heine, Best Publishing Company, Palm Beach Garden, Florida, 232 pp.
- Gave talk titled “Nearshore disposal of fine-grained sediment off Santa Cruz Harbor, California.” Santa Cruz Port District board of supervisors, 2010
- Wrote USGS SoundWaves August 2010 (No. 150) article, “Tracking Coral Larvae to Understand Hawai‘i Reef Health”
- Gave talk titled “Circulation and sediment dynamics in Maunalua Bay, Oahu.” Malama Maunalua, 2010
- Interviewed for NBC television’s Honolulu, HI, affiliate on coral spawning in Maunalua Bay, Oahu, HI (made the nightly news’ top story) 2010
- Interviewed for National Public Radio’s Hawaii affiliate on coral spawning in Maunalua Bay, Oahu, HI, 2010
- Provided scientific information regarding the influence of storms, sea level, and climate change on the impact of waves on sea cliffs in Santa Cruz, CA, for Santa Cruz County Redevelopment Agency, 2010
- Provided scientific information regarding the impact of waves on corals and coral reef ecosystem health in the Hawaiian Islands for Discovery USA television, 2009
- Gave talk titled “Geologic and Oceanographic Processes that Control the Formation of Bar-built Estuaries.” California Regional Water Quality Control Board governing council, 2009
- Provided underwater photography for USGS’s Office of Organizational and Employee Development Science and Technology Training Facility at the Denver Federal Center, 2009
- Gave talk titled “Measuring the Oceanography and Submarine Groundwater Discharge in Maunalua Bay, Oahu.” Malama Maunalua, 2009
- Represented the U.S. Geological Survey at a career panel workshop for the University of

California at Santa Cruz, Earth Sciences Department, 2008

- Provided scientific information regarding storm, wave, and geologic processes on Maverick's for the British Broadcasting Corporation (BBC)'s "Cutting Edge California, Part 5: The Natural World". See: <http://cuttingedgecalifornia.com/trails.html> and <http://www.bbcchannelpartners.com/worldnews/programmes/1000030/>, 2008
- Provided scientific information regarding storm, wave, and geologic processes on Maverick's for Fuel-TV. See: <http://www.maverickssurf.com/Common/Article.aspx?id=3476>, 2008
- Provided information on USGS scientific diving operations for Blue Planet Divers web site, 2008. See: http://www.blueplanetdivers.org/archives/2008/03/us_geological_s.php
- Provided scientific information regarding the influence of oceanographic and geologic processes on Guam's coral reefs on "K-57" (570 AM, a CBS affiliate) talk radio's "Where We Live" show, 2007
- Wrote USGS SoundWaves October 2007 (No. 98) article, "USGS Researchers Collaborate with National Park Service Scientists to Understand the Impact of Watershed Erosion on Coral Reefs in War-in-the-Pacific National Historical Park, Guam"
- Gave talk titled "Current Biologic Research by the USGS Coastal and Marine Geology Team", University of California at Santa Cruz, Biological Sciences Department's career day, 2007
- Provided scientific information on how winds, waves, and currents off west Maui could potentially transport sewage and contaminants for the Maui (HI) County Council, 2007.
- Designed the USGS Coastal and Marine Geology Team's outreach poster, "Does Pleasure Point need a seawall?", 2007
- Gave talk titled "Current Research by the USGS Coastal and Marine Geology Team in the Monterey Bay National Marine Sanctuary (MBNMS)", Monterey Bay National Marine Sanctuary Research Activities Panel, 2006
- Gave talk titled "U.S. Geological Survey: Who We Are, What We Do and Some Local Projects." Lions Club, Santa Cruz Chapter, 2006
- Participated in Mackay Whitsunday Australian Research Council (ARC) Historical Land Use Reef Connectivity Linkage Project, 2005-2006. See: <http://www.marine.uq.edu.au/mackayarc/people.htm>
- Participated in press conference on "Environmental Impacts to Coral Reefs" at the 13th AGU/ASLO/TOS Ocean Sciences Meeting; Associated Press story picked up by 6 newspapers in Hawaii and the continental US and one radio station in Germany
- Provided scientific information regarding wave processes and ocean safety to Outside Magazine. See: April, 2006 issue on "Killer Abs" (pg. 51-60).
- Provided scientific information regarding wave processes to the Gulf of the Farallones National Marine Sanctuary and Maverick's Surf Productions. See: <http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2006/02/07/BAGR2H41LF1.DTL>, 2006
- Provided scientific information regarding the Pleasure Point Study to the Monterey Bay National Marine Sanctuary. See: http://www.mbnms-simon.org/sections/geology/project_info.php?pid=100284&sec=g, 2005
- Provided scientific information regarding the Central California Regional Synthesis Project to the Monterey Bay National Marine Sanctuary, 2005. See: http://www.mbnms-simon.org/sections/oceanography/project_info.php?pid=100252&sec=o, 2005
- Provided scientific information regarding coastal erosion and engineering solutions for KQED's public television's "Coastal Clash" documentary and website. See: <http://www.kqed.org/w/coastalclash/solutions.html>, 2005
- Gave talk titled "Life and Death of Hawaiian Coral Reefs." U.S. Geological Survey's Western Region Public Lecture Series, 2004
- Designed the USGS Coastal and Marine Geology Team's outreach posters, "Studying Sediment Impacts on Hawaiian Coral Reefs" and "Drifters Track Hawaiian Coral Spawning", 2004
- Wrote USGS SoundWaves August 2004 (No. 64) article, "10th International Coral Reef

Symposium (ICRS)”

- Chaired Current Drifters display and was an Invitation and Publicity Coordinator for USGS’s 125th Birthday Celebration/Pacific Science Center Open House, 2004
- Judged the poster sessions at Monterey Bay National Marine Sanctuary’s Sanctuary Symposium, 2004
- Interviewed for the National Public Radio series, “Living on Earth” on coral spawning in Hawaii, 2003
- Wrote USGS SoundWaves August 2003 (No. 53) article, “West Maui Coastal Circulation Experiment: Understanding the Movement of Sediment, Coral Larvae and Contaminants along Coral Reefs”
- Interviewed for ABC television’s Monterey Bay affiliate on coastal erosion along Santa Cruz, CA, 2003
- Staffed the USGS booth at the Monterey Bay National Marine Sanctuary’s annual Shark Festival and Sanctuary Celebration, 2003
- Wrote USGS SoundWaves December 2002 (No. 47) article, “USGS Researchers Collaborate with National Park Service Archeologists to Better Predict the Life Expectancy of the *USS Arizona*”
- Gave talk titled “Cool Tools in Physical Oceanography” at the University of California’s Seymour Marine Discovery Center, 2002
- Gave talk titled “Coastal Hazards and Processes along the Monterey Peninsula and Carmel Bay, CA” to the Carmel, CA, city council and land use planners, 2001
- Participated in Monterey Bay National Marine Sanctuary’s Sanctuary Symposium, 1999-present
- Interviewed for or research highlighted in 26 newspaper articles in California and Hawaii (2000-2009)

BOOK OR REPORT CHAPTERS:

Berkowitz, P., Storlazzi, C.D., Courtot, K.N., Krause, C.M., and Reynolds, M.H., 2012, Sea-level rise and wave-driven inundation models for Laysan Island, *Chapter 2 of* Reynolds, M.H., Berkowitz, P., Courtot, K.N., and Krause, C.M., eds., “Predicting sea-level rise vulnerability of terrestrial habitat and wildlife of the Northwestern Hawaiian Islands” *U.S. Geological Survey Open-File Report 2012–1182*, p. 72–126. <http://pubs.usgs.gov/of/2012/1182/>

Storlazzi, C.D., Presto, M.K., Field, M.E., and Russell, M.A., 2010. Dynamics of the Physical Environment on *USS Arizona*: in Russell, M.A. and Murphy, L.E., eds., “Long-Term Management Strategies for *USS Arizona*: A Submerged Cultural Resource in Pearl Harbor” National Park Service, Submerged Resources Center, p. 87-122.

Bothner, M.H., Reynolds, R.L., Casso, M.A., Storlazzi, C.D., and Field, M.E., 2008. Sediment Mobility Along Moloka‘i’s Fringing Coral Reef; Evidence From Sediment Traps: in Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka‘i, Hawai‘i—Portrait of a Sediment-Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 147-152, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter19.pdf

Field, M.E., Calhoun, R.S., Storlazzi, C.D., Logan, J.B., and Cochran, S.A., 2008. Sediment on the Moloka‘i Reef: in Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka‘i, Hawai‘i—Portrait of a Sediment-Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 137-144, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter17.pdf

Field, M.E., Logan, J.B., Chavez, P.S., Storlazzi, C.D., and Cochran, S.A., 2008. Views of the South Moloka‘i Watershed-to-Reef System: in Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka‘i, Hawai‘i—Portrait of a Sediment-

Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 17-32, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter02.pdf

Field, M.E., Bothner, M.H., Chavez, P.S., Cochran, S.A., Jokiel, P.L., Ogston, A.O., Presto, M.K., and Storlazzi, C.D., 2008. The Effects of a Kona Storm on the Moloka'i Reef: November and December 2001: *in* Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka'i, Hawai'i—Portrait of a Sediment-Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 159-166, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter21.pdf

Ogston, A.O., Presto, M.K., and Storlazzi, C.D., and Field, M.E., 2008. Causes of Turbidity on the Moloka'i Reef Flat and Resulting Sediment-Transport Patterns: *in* Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka'i, Hawai'i—Portrait of a Sediment-Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 153-158, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter20.pdf

Storlazzi, C.D., Logan, J.B. and Field, M.E., 2008. Shape of the South Moloka'i Fringing Reef: Trends and Variation: *in* Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka'i, Hawai'i—Portrait of a Sediment-Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 33-36, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter03.pdf

Storlazzi, C.D., Field, M.E., Brown, E. and Jokiel, P., 2008. Waves and Their Impact on Reef Growth: *in* Field, M.E., Cochran, S.A., Logan, J.B. and Storlazzi, C.D., eds., “The Coral Reef of South Moloka'i, Hawai'i—Portrait of a Sediment-Threatened Fringing Reef” *USGS Scientific Investigation Report 2007-5101*, p 105-108, http://pubs.usgs.gov/sir/2007/5101/sir2007-5101_chapter11.pdf

Storlazzi, C.D., Gibbs, A.E. and Field, M.E., 2008. Winds, Waves, Tides, and the Resulting Flow Patterns and Fluxes of Water, Sediment, and Coral Larvae off West Maui, Hawaii: *in* Vermeij, M. ed., *Coral Reefs of Maui- Status, Stressors and Suggestions*: Blurb, Inc., p. 16-21.

Storlazzi, C.D., Presto, M.K., Logan, J.B., and Field, M.E., 2007, In Situ Measurements of Coastal Circulation and Sediment Dynamics in Hanalei Bay, Kauai: *in* Field, Michael E., Berg, Carl S., and Cochran, Susan A., eds., *Science and management in the Hanalei watershed; A trans-disciplinary approach: Proceedings from the Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, USGS Open File Report 2007-1219*, p. 82-84. <http://pubs.usgs.gov/of/2007/1219/>

Hoeke, R.A., Storlazzi, C.D., 2007, Hydrodynamic Modeling of Hanalei Bay: *in* Field, M.E., Berg, C.S., and Cochran, S.A., eds., *Science and management in the Hanalei watershed; A trans-disciplinary approach: Proceedings from the Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, USGS Open File Report 2007-1219*, p. 44-46. <http://pubs.usgs.gov/of/2007/1219/>

Field, M.E., Chezar, H., and Storlazzi, C.D., 2007, Photographic Time-series of Sedimentation near the Wall, Hanalei Bay, Kauai, Summers of 2005 and 2006: *in* Field, M.E., Berg, C.S., and Cochran, S.A., eds., *Science and management in the Hanalei watershed; A trans-disciplinary approach: Proceedings from the Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, USGS Open File Report 2007-1219*, p. 36-38. <http://pubs.usgs.gov/of/2007/1219/>

Cochran, S.A., Field, M.E., and Storlazzi, C.D., 2007, Distribution of Mud in Hanalei Bay, Kauai: June vs. September, 2006: *in* Field, M.E., Berg, C.S., and Cochran, S.A., eds., *Science and management in the Hanalei watershed; A trans-disciplinary approach: Proceedings from the*

Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, *USGS Open File Report 2007-1219*, p. 20-23. <http://pubs.usgs.gov/of/2007/1219/>

Draut, A.E., Field, M.E., Bothner, M.H., Cochran, S.A., Casso, M., Baldwin, S., Reynolds, R.L., Logan, J.B., and Storlazzi, C.D., 2007, Seasonal Flood Deposits in Hanalei Bay, Kauai, HI: *in* Field, M.E., Berg, C.S., and Cochran, S.A., eds., Science and management in the Hanalei watershed; A trans-disciplinary approach: Proceedings from the Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, *USGS Open File Report 2007-1219*, p. 24-30. <http://pubs.usgs.gov/of/2007/1219/>

ABSTRACTS:

Cheriton, O.M., Storlazzi, C.D., Rosenberger, K.J., Quataert, E., and van Dongeren, A., "Swell-generated set-up and infragravity wave propagation over a fringing coral reef: Implications for wave-driven inundation of atoll islands" American Geophysical Union 2014 Fall Meeting

Storlazzi, C.D., Messina, A.M., Cheriton, O.M., and Biggs, T.W., 2014 "Eulerian and Lagrangian measurements of water flow and residence time in a fringing coral reef embayment" American Geophysical Union 2014 Fall Meeting

Rosenberger, K.J., Storlazzi, C.D., Cheriton, O.M., and McPhee-Shaw, E.E., 2014. "Variability of the internal tide on the southern Monterey Bay continental shelf and associated bottom boundary layer sediment transport" American Geophysical Union 2014 Fall Meeting

Field, M.E., Storlazzi, C.D., Gibbs, A.E., Cochran, S.A., and Logan, J.B., 2014 "The coral reefs of Maui Nui" 2014 Hawaii Conservation Conference.

Franklin, E., Storlazzi, C.D., Treml, E., and Toonen, R., 2014 "Future coral community projections for the Hawaiian Islands: A look at Maui Nui" 2014 Hawaii Conservation Conference.

Storlazzi, C.D., von Ormondt, M., Chen, Y.-L., 2014. "Numerical modeling of coral connectivity in the Maui Nui complex of Hawaii" 2014 Hawaii Conservation Conference.

Cheriton, O.M., Storlazzi, C.D., McPhee-Shaw, E.E., Roseberger, K.J., 2014. "Upwelling rebound, ephemeral secondary pycnoclines, and the creation of a near-bottom wave guide over the Monterey Bay shelf: Implications for sediment resuspension and transport" 2014 Ocean Sciences Meeting

Field, M.E., Storlazzi, C.D., Cacchione, D.A., Logan, J.B., Rubin, D.M., Wilson, P.A., Black, K.S., 2014. "Fine-grained sediment transport on a fringing coral reef flat as elucidated by sediment tracers and oceanographic measurements" 2014 Ocean Sciences Meeting

Grady, A.E., Jenkins, C.J., Moore, L.J., Potts, D.C., Burgess, P.M., Storlazzi, C.D., Elias, E., and Reidenbach, M.A., 2014. "Feedbacks between wave energy and declining coral reef structure: Implication for coastal morphodynamics." 2014 Ocean Sciences Meeting

Prouty, N.G., Storlazzi, C.D., McCutcheon, A.L., Jenson, J.W., and Cohen, A., 2014. "Historic impact of watershed change and sedimentation to reefs along western Guam." 2014 Ocean Sciences Meeting

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Oceanographic data for west Maui, HI, for investigating the impact of cruise ships on natural resources. Maui County, 2007

Oceanographic data for Hanalei Bay, Kauai, HI, to calculate allowable TMDLs. Environmental Protection Agency and State of Hawaii, Department of Health, 2006

Oceanographic data for Kaloko-Honokohau National Historical Park's waters, Hawaii, HI, for the proposed State of Hawaii's expansion of the Honokohau marina and associated land development. State of Hawaii, 2006

Oceanographic data for southern Molokai, HI, for research and resource management. NOAA's National Oceanographic Data Center (NODC), 2006

Oceanographic data for western Maui, HI, for research and resource management. NOAA's National Oceanographic Data Center (NODC), 2006

Oceanographic data for southern Oahu, HI, for resource management. National Park Service, 2006

Oceanographic data for the USS Arizona Memorial, Hawaii, HI, for resource management. National Park Service, USS Arizona Memorial, 2005

Oceanographic data for Kaloko-Honokohau National Historical Park's waters, Hawaii, HI, for resource management. National Park Service, Kaloko-Honokohau National Historical Park, 2004

Oceanographic data for west Maui, HI, to calculate allowable TMDLs. Environmental Protection Agency and State of Hawaii, Department of Health, 2004

Oceanographic data for west Maui, HI, for resource management. State of Hawaii, Department of Land and Natural Resources, 2004

Oceanographic data for the USS Arizona Memorial, Hawaii, HI, for resource management. National Park Service, USS Arizona Memorial, 2004

COLLABORATIONS:

Since FY2000: 48 PhD researchers at 18 different institutions

Since FY2010: 37 PhD researchers at 15 different institutions

POSTDOCTORAL SCIENTISTS ADVISED:

Li H. Erikson, USGS Postdoctoral Scientist, 2009-2011, “Arctic Bluff Retreat and Inundation of an Ecologically Sensitive Barrier Island System Due to a Changing Global Climate” Funded by the USGS Mendenhall Program

Christopher H. Conaway, USGS Postdoctoral Scientist, 2008-2010, “Fluvial Deposition in the Coastal Ocean and its Impact on Nearshore Ecosystems” Funded by the USGS Mendenhall Program

GRADUATE STUDENTS ADVISED:

James Shope, University of California at Santa Cruz, “Predicting Potential Impacts of Sea-Level Rise on Pacific Island Atolls.” Ph.D. ongoing

Alex Messina, San Diego State University, “Terrigenous sediment dynamics in a small, tropical fringing-reef embayment.” Ph.D. ongoing

Justin Rogers, Stanford University, “Spur and groove formations on coral reefs: hydrodynamic and geomorphic function” Ph.D. ongoing

Joseph Chojnacki, San Jose State University, “Controls on Coral Reef Morphology in the Northwestern Hawaiian Islands.” M.Sc. ongoing

Rhiannon Bezore, University of California at Santa Cruz, “Predicting Potential Impacts of Sea-Level Rise on Sandy Beaches in California.” M.Sc. 2014

Lynne Harden, University of California at Santa Cruz, “Predicting Potential Impacts of Sea-Level Rise on Sandy Beaches in California.” Ph.D. 2012

GRADUATE STUDENT RESEARCH SUPPORT:

Amy Grady, University of Virginia “Influence of Climate Change on Wave Dissipation over Coral Reefs and Subsequent Effects on Beach Morphology.”

Filippo Ferrario, Universita di Bologna (IT), “Ecosystem services and conservation: the role of coral reefs as an Ecosystem-Based Adaptation to coastal hazards.”

Bryson Robertson, University of Guelph (CA), “Assessing the impact of wave characteristics and bathymetric features on wave breaking shape and energy intensity”

Ronald Hoeke, James Cook University (AU), “Wave-driven circulation in a coral reef embayment”

Eric Niven, Moss Landing Marine Laboratory ,“Gauging seacliff erosion using a laser scanning total station.”

Sean Vitousek, University of Hawaii (UH), “Model scenarios of shoreline change at Kaanapali Beach, Maui, Hawaii: Seasonal and extreme events.”

Eleyne Phillips, University of California at Santa Cruz, “Geologic and oceanographic controls on rippled scour depressions offshore Huntington Beach, CA.”

Stacy Jupiter, University of California at Santa Cruz, “Coral trace element records of terrestrial, agricultural and land-use change in a Great Barrier Reef catchment.”

Guy Marion, University of Queensland (AU), “Coral trace element records of historic terrestrial land use in Mackay Whitsunday, central Great Barrier reef”

Peter Adams, University of California at Santa Cruz, “Nearshore wave-induced cyclical flexing of seacliffs.”

Kathy Presto, University of Washington, “Temporal and spatial variability in the flow and dispersal of suspended-sediment on a fringing reef flat, Molokai, Hawaii.”

Mary Engels, University of Hawaii, “Holocene reef accretion: southwest Molokai, Hawaii.”

Johanna Rosman, Stanford University, “Field observations of the flow field in and around Giant Kelp (*Macrocystis pyrifera*) forests.”

Olivia Cheriton, University of California at Santa Cruz, “Physical and biological controls on the maintenance and dissipation of a thin phytoplankton layer.”